

SEQUENCE LISTING A

<110> CANON KABUSHIKI KAISHA

<120> Probe set and method for identifying HLA allele

<130> g10003828A

<150> JP2003-430553

<151> 2003-12-25

<160> 637

<170> PatentIn version 3.2

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<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 23
 <211> 897
 <212> DNA
 <213> Homo sapiens

<400> 23

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<210> 24
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 <213> Homo sapiens

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<400> 24
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 <212> DNA
 <213> Homo sapiens

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<400> 25
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<210> 26
 <211> 897
 <212> DNA

<213> Homo sapiens

<400> 26

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<211> 897

<212> DNA

<213> Homo sapiens

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cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc      180
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<210> 28

<211> 897

<212> DNA

<213> Homo sapiens

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 32

<211> 897

<212> DNA

<213> Homo sapiens

<400> 32

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<210> 33

<211> 781

<212> DNA

<213> Homo sapiens

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 gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagggt 240
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 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccctccag 360
 atgatgtttg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccgtac 420
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
 gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
 gagacgtgc agcgcacgga cgcggcaaaa acgcatatga ctaccacgc tgtctctgac 660
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
 g 781

<210> 34

<211> 897
 <212> DNA
 <213> Homo sapiens

<400> 34
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 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
 aggatgtgtg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccagtac 420
 gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
 gacaaggcag ctacgaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
 agagcctacc tggaggggac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
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 catgaagcca ccctgagggt ctgggccctg agcttctacc ctgcggagat cacactgacc 720
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
 ggggatggaa cttccagaa gtggcggtt gtggtggtgc cttctggaca ggagcagaga 840
 tacacctgcc atgtgcagca tgagggttg cccaagccc tcacctgag atggggag 897

<210> 35
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 35
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggacc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360
 aggattacat cgccctgaaa gaggactgc gctcttgac cgcggcggac atggcggctc 420
 agatcacaa gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga gcctacctgg 480
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
 gcacgg 546

<210> 36
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 36
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 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
 acggggagac acggaatgtg aaggccact cacagactca ccgagtggac ctggggacc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360
 aggattacat cgccctgaaa gaggactgc gctcttgac cgcggcggac atggcagctc 420
 agaccacaa gcacaagtgg gaggcgccc atgtggcgga gcagttgaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
 gcacgg 546

<210> 37
 <211> 546

<212> DNA

<213> Homo sapiens

<400> 37

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cgagccagag gatggagccg cgggcccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaacgtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gtcttcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

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<210> 38

<211> 897

<212> DNA

<213> Homo sapiens

<400> 38

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cgcggggagc cccgttcat cgcagtgggc tacgtggaca acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgttcc tccgcggta ccaccagtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
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tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
gggatggaa ccttcagaa gtggcgcggt gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

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<210> 39

<211> 897

<212> DNA

<213> Homo sapiens

<400> 39

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cagacctggg cgggctctca ctcatgagg tattttca catcgtgtc ccggcccggc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
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gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgacgga cgcacccaaa acgcatatga ctaccacgc tgtctctgac 660
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tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
gggatggaa ccttcagaa gtggcgcggt gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

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<210> 40
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
 acggggagac acggaaagtg aaggccact cacagactca cagagtggac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
 gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcagctc 420
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
 gcacgg 546

<210> 41
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 41
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 gtttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
 acggggagac acggaaagtg aaggccact cacagactca cagagtggac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
 gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
 agaccaccaa gcacaagtgg gagacggccc atgtggcgga gcagttgaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
 gcacgg 546

<210> 42
 <211> 891
 <212> DNA
 <213> Homo sapiens

<400> 42
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 tgggcgggct ctactccat gaggtatttc ttacatccg tgtcccggc cggccgagg 120
 gagccccgt tcacgcagt gggtacgtg ~~gacgacgc agttcgtg~~ gttcgacagc 180
 gacgccgga gccagaggat ggagccggc gcgccgtgga tagagcagga ggtccggag 240
 tattgggacg gggagacac gaaagtgaag gccactcac agactaccg agtggacctg 300
 gggacctgc gcgctacta caaccagagc gaggcgggtt-ctcacacct cagaggatg 360
 tatggctgcg acgtggggc ggactggcg ttctccgcg ggtaccacca gtacgctac 420
 gacggcaagg attacatgc cctgaaagag gacctgcgt cttggaccgc ggcggacatg 480
 gcagctcaga ccaccaagca caagtggag gcggccatg aggcggagca gttgagagc 540
 tacctggagg gcacgtcgt ggagtggct cgcagatacc tggagaacg gaaggagacg 600
 ctgcagcgca cggacgcccc caaaacgcat atgactacc acgtgtctc tgacctgaa 660
 gccacctga ggtgctggc cctgagctc tacctgcg agatcacact gacctggcag 720
 cgggatggg aggaccagac ccaggacac gagctcgtg agaccaggcc tgcaggggat 780
 ggaaccttc agaagtggg gcctgtgtg gtgcctctg gacaggagca gagataacc 840
 tgccatgtg agcatgaggg ttgccaag ccctcacc tgagatggga g 891

<210> 43
<211> 546
<212> DNA
<213> Homo sapiens

<400> 43
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gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

<210> 44
<211> 546
<212> DNA
<213> Homo sapiens

<400> 44
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gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagagtccg gattattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

<210> 45
<211> 546
<212> DNA
<213> Homo sapiens

<400> 45
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gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
acggggagac acggcaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

<210> 46
<211> 897
<212> DNA
<213> Homo sapiens

<400> 46

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cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300
gacctgggga ccctgcgagg ctactacaac cagagcgagg ccggttctca caccgtccag 360
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gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
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ggggatggaa ccttcagaa gtggcggtg gtggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

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<210> 47
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 47
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gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacccg 120
ggagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggtca ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtagcc tacgacggca 360
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agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctg 480
agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

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<210> 48
 <211> 897
 <212> DNA
 <213> Homo sapiens

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<400> 48
atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggctct ggcctgacc 60
cagacctggg cgggctctca ctccatgagg tatttttca catccgtgtc ccggcccggc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240
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gacctgggga ccctgcgagg ctactacaac cagagcgagg ccggttctca caccgtccag 360
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gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
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gagacgtcgc agcgacgga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660
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tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtggcggtg gtggtgtgc cttctggaca ggagcagaga 840
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<210> 49
 <211> 822

<212> DNA

<213> Homo sapiens

<400> 49

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gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg gattattggg 180
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agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
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gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct gaagccacc 600
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gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcct ctggacagga gcagagatac acctgccatg 780
tcgacatga gggttgccc aagccctca cctgagatg gg 822

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<210> 50

<211> 546

<212> DNA

<213> Homo sapiens

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<400> 50gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg gattattggg 180
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gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

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<210> 51

<211> 546

<212> DNA

<213> Homo sapiens

<400> 51

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gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggtccg gattattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgccgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

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<210> 52

<211> 546

<212> DNA

<213> Homo sapiens

<400> 52

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acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
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agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
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<210> 53

<211> 546

<212> DNA

<213> Homo sapiens

<400> 53

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gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60
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gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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agaccaccaa gcacaagtgg gagacggccc atgaggcgga gcagcagaga gcctacctgg 480
agggcgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

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<210> 54

<211> 546

<212> DNA

<213> Homo sapiens

<400> 54

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cgagccagag gatggagccg cggcgccgt gcatagagca ggagggtccg gattattggg 180
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agatcaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

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<210> 55

<211> 546

<212> DNA

<213> Homo sapiens

<400> 55

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cgagccagag gatggagccg cggcgccgt gcatagagca ggagggtccg gattattggg 180
acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300

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gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
 agaccaccaa gcacaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
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 gcacgg 546

<210> 56
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 56
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 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
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 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
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 gcacgg 546

<210> 57
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
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 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
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 gcacgg 546

<210> 58
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 58
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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 agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
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 gcacgg 546

<210> 59
<211> 546
<212> DNA
<213> Homo sapiens

<400> 59
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gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
accaggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
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agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctg 480
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gcacgg 546

<210> 60
<211> 619
<212> DNA
<213> Homo sapiens

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cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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gacatggcag ctgagaccac caagcacaag tgggagggcg cccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgacgg 619

<210> 61
<211> 546
<212> DNA
<213> Homo sapiens

<400> 61
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cgagccggag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagagtca ccgagtggac ctggggaccc 240
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gcgacgtggg gtcggactgg cgcttcttc gcgggtacca ccagtacgcc tacgacggca 360
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agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

<210> 62
<211> 546
<212> DNA
<213> Homo sapiens

<400> 62

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gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
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gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

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<210> 63

<211> 546

<212> DNA

<213> Homo sapiens

<400> 63

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gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
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agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

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<210> 64

<211> 546

<212> DNA

<213> Homo sapiens

<400> 64

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
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gcgacgtggg gccggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

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<210> 65

<211> 546

<212> DNA

<213> Homo sapiens

<400> 65

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gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300

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gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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 agaccacaa gcacaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
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 gcacgg 546

<210> 66
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 gcacgg 546

<210> 67
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 67
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 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
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 gcacgg 546

<210> 68
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 68
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
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 gcacgg 546

<210> 69
 <211> 895
 <212> DNA
 <213> Homo sapiens

<400> 69
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<210> 70
 <211> 897
 <212> DNA
 <213> Homo sapiens

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 ggggatggaa cctccagaa gtggcgggct gtggtggtgc cttctggaca ggagcagaga 840
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<210> 71
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 71
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
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 gcacgg 546

<210> 72
 <211> 822
 <212> DNA
 <213> Homo sapiens

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 gggaggacca gaccaggac acggagctc tggagaccag gcctgcagg gatggaacct 720
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 tgcagcatga gggttgcc aagccctca cctgagatg gg 822

<210> 73
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 73
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 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagttccc tacgacgca 360
 aggtattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
 agaccaccaa gcacaagtgg gaggcgccc atgtggcgga gcagttgaga gcctacctgg 480
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 gcacgg 546

<210> 74
 <211> 897
 <212> DNA
 <213> Homo sapiens

<400> 74
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 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtc 180
 gacagcgacg ccgcgagcca gaggatggag ccgcggcgc cgtggataga gcaggagggg 240
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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggc 480
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 agagcctacc tggatggac gtgcgtggag tggctccga gatactgga gaacgggaag 600
 gagacgtgc agcgacgga cccccaag acacatatga cccaccacc catctctgac 660
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tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
 ggggatgaa ccttcagaa gtggcggtc gtgtgtgc cttctggaga ggagcagaga 840
 tacacctgc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 75
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 75
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 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gagtattggg 180
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240
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 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360
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 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagctgaga gcctacctgg 480
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 gcacgg 546

<210> 76
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 76
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 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gagtattggg 180
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240
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 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagttgaga gcctacctgg 480
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 gcacgg 546

<210> 77
 <211> 897
 <212> DNA
 <213> Homo sapiens

<400> 77
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 gacagcgacg ccgcagcca gaggatggag ccgcggcgcg cgtggataga gcaggagggg 240
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ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840
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<210> 78
<211> 897
<212> DNA
<213> Homo sapiens

<400> 78
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cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgagagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300
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<210> 79
<211> 858
<212> DNA
<213> Homo sapiens

<400> 79
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acgacacgca gttcgtgagg ttccgacagc agcccgagag ccagaggatg gagccgcggg 180
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agctcgtgga gaccaggcct gcaggggatg ~~gaaccttca~~ gaagtgggag gctgtggtgg 780
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<210> 80
<211> 546
<212> DNA
<213> Homo sapiens

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gcgacgtggg gtcggacggg cgcttctcc gcggtaccg gcaggacgcc tacgacggca 360
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 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagttgaga gcctacctgg 480
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
 gcacgg 546

<210> 81
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 81
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 gttcatcgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcc 120
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gagtattggg 180
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240
 tgcgcgcta ctacaaccag agcgagccg gttctcacac catccagata atgtatggct 300
 gcgacgtggg gtcggacggg cgcttctcc gcggtaccg gcaggacgcc tacgacggca 360
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 agatcaccaa gcgcaagtgg gaggcgccc atgtggcgga gcagttgaga gcctacctgg 480
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 gcacgg 546

<210> 82
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 82
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 gttcatcgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcc 120
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gagtattggg 180
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240
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 gcgacgtggg gtcggacggg cgcttctcc gcggtaccg gcaggacgcc tacgacggca 360
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 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagttgaga gcctacctgg 480
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
 gcacgg 546

<210> 83
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 83
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 gttcatcgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcc 120
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gagtattggg 180
 accaggagac acggaatgtg aaggccagt cacagactca ccgagtggac ctggggaccc 240
 tgcgcgcta ctacaaccag agcgagccg gttctcacac catccagata atgtatggct 300
 gcgacgtggg gtcggacggg cgcttctcc gcggtaccg gcaggacgcc tacgacggca 360
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 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagttgaga gcctacctgg 480
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
 gcacgg 546

<210> 84
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 84
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 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cggcgccgt ggaatagaca ggaggggccc gaggattggg 180
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 gcacgg 546

<210> 85
 <211> 897
 <212> DNA
 <213> Homo sapiens

<400> 85
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 cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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 ggggatggaa ccttcagaa gtggcggtgt gtgtgtgtgt cttctggaga ggagcagaga 840
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<210> 86
 <211> 822
 <212> DNA
 <213> Homo sapiens

<400> 86
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 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cggcgccgt ggaatagaca ggaggggccc gaggattggg 180
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 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac acctgccatg 780
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<210> 87
<211> 895
<212> DNA
<213> Homo sapiens

<400> 87
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<210> 88
<211> 546
<212> DNA
<213> Homo sapiens

<400> 88
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gcacgg 546

<210> 89
<211> 897
<212> DNA
<213> Homo sapiens

<400> 89
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 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840
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<210> 90
 <211> 897
 <212> DNA
 <213> Homo sapiens

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 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 91
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 91
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<210> 92
 <211> 897
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 <213> Homo sapiens

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<210> 93
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <212> DNA
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gcacgg 546

<210> 96
<211> 546
<212> DNA
<213> Homo sapiens

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gcacgg 546

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<211> 546
<212> DNA
<213> Homo sapiens

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cgacg 546

<210> 98
<211> 546
<212> DNA
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gcacgg 546

<210> 99
<211> 573

<212> DNA
<213> Homo sapiens

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<210> 100
<211> 897
<212> DNA
<213> Homo sapiens
<400> 100

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<212> DNA
<213> Homo sapiens

<400> 101
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gcacgg 546

<210> 102
<211> 546
<212> DNA
<213> Homo sapiens

<400> 102

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gcacgg 546

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<210> 103

<211> 546

<212> DNA

<213> Homo sapiens

<400> 103

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gcacgg 546

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<210> 104

<211> 546

<212> DNA

<213> Homo sapiens

<400> 104

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<211> 897

<212> DNA

<213> Homo sapiens

<400> 105

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<211> 897

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 546

<212> DNA
<213> Homo sapiens

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agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

<210> 111
<211> 897
<212> DNA
<213> Homo sapiens

<400> 111

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cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300
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atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccaccagtac 420
gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatatcac caagcgcaag tgggagggcg ccatgtggc ggagcagcag 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
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catgaggcca ctctgagatg ctgggcccgt ggcttctacc ctgcggagat cactctgacc 720
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ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840
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<210> 112

<211> 546

<212> DNA

<213> Homo sapiens

<400> 112

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cgagccagag gatggagccg cggcgccgtt ggatagagca ggagggggcg gagtattggg 180
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gcgacgtggg gtgcgacggg cgcttctcc gcgggtacca ccagtaccc tacgacggca 360
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agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gactg 546

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<210> 113

<211> 897

<212> DNA

<213> Homo sapiens

<400> 113

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cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
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aacctgggga ccctgcggg ctactacaac cagagcgagg ccggttctca caccctccag 360
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gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
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tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
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tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

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<210> 114
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 114
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 cgagccagag gatggagccg cgggcccgt ggatagagca ggaggggccc gagtattggg 180
 acgaggagac agggaaagt aaggccact cacagactga ccgagagaac ctgcggatcg 240
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
 gcgacgtggg gtccgacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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 agatcaccca gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcacgg 546

<210> 115
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 115
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 cgagccagag gatggagccg cgggcccgt ggatagagca ggaggggccc gagtattggg 180
 acgaggagac agggaaagt aaggccact cacagactga ccgagagaac ctgcggatcg 240
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 agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
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 gcacgg 546

<210> 116
 <211> 897
 <212> DNA
 <213> Homo sapiens
 <400> 116

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 cgcggggagc cccgcttcat cgcctgggc tacgtggacg acacgcagtt cgtgcggttc 180
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
 ccggagtatt gggacgagga gacagggaa ~~gtgaaaggac~~ gtcacagac tgaccgagag 300
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca cacctccag 360
 atgatgttg gctgcgact ggggtcggac gggcgcttc tccgaggta ccaccagtac 420
 gcctacgacg gcaaggatta catgcctg-aaagaggacc-tgcgtcttg gaccgcggc 480
 gacatggcgg ctcatgac caagcgcaag tgggaggcgg ccatgtggc ggagcagcag 540
 agagcctact tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag 600
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 catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
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 ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 117
 <211> 897

<212> DNA

<213> Homo sapiens

<400> 117

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atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggccct ggccctgacc    60
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cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg    240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tgaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag    360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccaccagtac    420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttgc gaccgcggcg    480
gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag    540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag    600
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac    660
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tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca    780
ggggatggaa cttccagaa gtgggcagct gtggtggtag cttctggaga ggagcagaga    840
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<210> 118

<211> 546

<212> DNA

<213> Homo sapiens

<400> 118

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gctcccactc catgaggtat ttctccacat ccgtgtccc gcccggccgc ggggagcccc    60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg    120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg    180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg    240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct    300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca    360
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agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg    480
agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc    540
gcacgg                                           546

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<210> 119

<211> 546

<212> DNA

<213> Homo sapiens

<400> 119

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gctcccactc catgaggtat ttctccacat ccgtgtccc gcccggccgc ggggagcccc    60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg    120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg    180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg    240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct    300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca    360
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agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg    480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc    540
gcacgg                                           546

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<210> 120<211> 546

<212> DNA

<213> Homo sapiens

<400> 120

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
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cgctccgcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

<210> 121

<211> 546

<212> DNA

<213> Homo sapiens

<400> 121

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gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
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gcgacgtggg gccggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

<210> 122

<211> 546

<212> DNA

<213> Homo sapiens

<400> 122

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
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agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

<210> 123

<211> 546

<212> DNA

<213> Homo sapiens

<400> 123

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300

gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtagcc tacgacggca 360
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gcacgg 546

<210> 124
<211> 546
<212> DNA
<213> Homo sapiens

<400> 124
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gttcatcgc cgtgggtac gtggacgaca ccagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180
acgaggagac agggaaagtg aaggccagt cacagactga ccagtgga ctggggacc 240
tgcgggcta ctacaaccag agcgaggacg gttctcacac cctccagatg atgttggt 300
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gcacgg 546

<210> 125
<211> 546
<212> DNA
<213> Homo sapiens

<400> 125
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gttcatcgc cgtgggtac gtggacgaca ccagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180
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gcacgg 546

<210> 126
<211> 546
<212> DNA
<213> Homo sapiens

<400> 126
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cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180
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agatcacaa gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga gcctacctg 480
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gcacgg 546

<210> 127
<211> 897
<212> DNA
<213> Homo sapiens

<400> 127
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cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtc 180
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<210> 128
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<213> Homo sapiens

<400> 128
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cgagccagag gatggagccg cgggcgccgt gtagagagca ggagggggcg gattattggg 180
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cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggt 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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gcacgg 546

<210> 129
<211> 546
<212> DNA
<213> Homo sapiens

<400> 129
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cgagccagag gatggagccg cgggcgccgt gtagagagca ggagggggcg gattattggg 180
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agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

<210> 130
<211> 546
<212> DNA

<213> Homo sapiens

<400> 130

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
acgaggagac agggaaagt aaggccact cacagactga ccgagagaac ctgcggatcg 240
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agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctcccgatg acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

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<210> 131

<211> 599

<212> DNA

<213> Homo sapiens

<400> 131

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aacctctc ctgctactct cgggggccct ggccctgacc cagacctggg caggctccca 60
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cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc gacagcgacg ccgcgagcca 180
gaggatggag ccgcgggcgc cgtggataga gcaggagggg ccggagtatt gggacgagga 240
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ggggtcggac gggcgcttcc tccacgggta ccaccagtac gcctacgacg gcaaggatta 420
catgccttg aaagaggacc tgcgtcttg gaccgcggcg gacatggcgg ctcatcac 480
caagcgcaag tgggaggcgg cccatgtggc ggagcagcag agagcctacc tggagggcac 540
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<210> 132

<211> 619

<212> DNA

<213> Homo sapiens

<400> 132

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cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc ccggcccgcc 120
cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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gctacgacg gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcggcg 480
gacagggcgg ctcatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag 540
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<210> 133

<211> 546

<212> DNA

<213> Homo sapiens

<400> 133

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180

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acgaggagac agggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
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 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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 agatcacaa gcgcaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480
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 gcacgg 546

<210> 134
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 134
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 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180
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 gcacgg 546

<210> 135
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 135
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 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180
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 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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 agatcacaa gcgcaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480
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 gcacgg 546

<210> 136
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 136
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 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180
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 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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 agatcacaa gcgcaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480
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gcacgg

546

<210> 137
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 137
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagagc ctgcggatcg 240
 cgtccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
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 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcacgg 546

<210> 138
 <211> 822
 <212> DNA
 <213> Homo sapiens

<400> 138
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
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 cgtccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420
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 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct 720
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 tgcagcatga gggtttgc cagccctca cctgagatg gg 822

<210> 139
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 139
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
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 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
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 agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcacgg 546

<210> 140
<211> 546
<212> DNA
<213> Homo sapiens

<400> 140gctccactc catgaggtat ttctccacat ccgtgtccc gcccggccgc ggggagcccc 60
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cgagccagag gatggagccg tgggcgccgt ggatagagca ggaggggccg gagtattggg 180
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agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

<210> 141
<211> 546
<212> DNA
<213> Homo sapiens

<400> 141
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gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagctg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
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gcacgg 546

<210> 142
<211> 546
<212> DNA
<213> Homo sapiens

<400> 142
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gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
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agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
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gcacgg 546

<210> 143
<211> 898
<212> DNA
<213> Homo sapiens

<400> 143
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 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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 gcttacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480
 gacatggcgg ctacatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga bgaacgggaa 600
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 ctggcagcgg gatggggagg accagacca ggacacggag ctctgtgaga ccaggcctgc 780
 aggggatggg acctccaga agtgggcgtc tgtgtgtgtg cttctggac aggagcagag 840
 atacacctgc catgtgcagc atgagggtct gcccaagccc ctacacctga gatgggag 898

<210> 144

<211> 897

<212> DNA

<213> Homo sapiens

<400> 144

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 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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 gacatggcgg ctacatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540
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 ggggatggga cctccagaa gtgggcgtc tgggtgtgtc cttctggaca ggagcagaga 840
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<210> 145

<211> 546

<212> DNA

<213> Homo sapiens

<400> 145

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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gattattggg 180
 accggaacac acggaatgtg aaggccact cacagactga ccgagagagc ctgcggatcg 240
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 agggccggtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540
 gcacgg 546

<210> 146

<211> 546

<212> DNA

<213> Homo sapiens

<400> 146

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
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gcacgg 546

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<210> 147

<211> 897

<212> DNA

<213> Homo sapiens

<400> 147

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cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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<210> 148

<211> 897

<212> DNA

<213> Homo sapiens

<400> 148

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cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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 cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tcaccgagtg 300
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360
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<210> 150
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 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360
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 agatcaccca gcgcaagtgg gaggcgccc atgaggcgga gcagcagaga gcctacctgg 480
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 gcacgg 546

<210> 169
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 169
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 cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc gagtattggg 180
 acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240
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 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagttgaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcgcgg 546

<210> 170
<211> 546
<212> DNA
<213> Homo sapiens

<400> 170
gctcccactc catgaggtat ttaccacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120
cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc gagtattggg 180
acctgcagac acggaatgtg aaggccagc cacagactga ccgagcgaac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
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gcacgg 546

<210> 171
<211> 897
<212> DNA
<213> Homo sapiens

<400> 171
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cagacctggg cgggctccca ctccatgagg tatttctcca catccgtgc cggcccggc 120
agtggagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagagg 240
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gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatatcac ccagcgcaag tgggagggcg ccggttgggc ggagcagttg 540
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catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840
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<210> 172
<211> 887
<212> DNA
<213> Homo sapiens

<400> 172
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cagacctggg cgggctccca ctccatgagg tatttctcca catccgtgc cggcccggc 120
agtggagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagagg 240
cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagag 300
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ataatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcggtta tgaacagcac 420
gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg gacatggcgg 480
ctcatatcac ccagcgcaag tgggagggcg ccgctgggc ggagcagttg agagcctacc 540
tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag gagacgtgc 600
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atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca ggggatggaa 780
ccttccagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga tacacctgcc 840

atgtgcagca tgagggctctg cccaagcccc tcacctgag atgggag

887

<210> 173

<211> 767

<212> DNA

<213> Homo sapiens

<400> 173

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ggctccact ccatgaggtat ttctccacat ccgtgtccc gcccggcagt ggagagcccc 60
gcttcatcgc agtgggtac gtggacgac cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cggcgccgt gtagagagca ggagaggcct gagtattggg 180
accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac atggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

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<210> 174

<211> 546

<212> DNA

<213> Homo sapiens

<400> 174

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ggctccact ccatgaggtat ttctccacat ccgtgtccc gcccggcagt ggagagcccc 60
gcttcatcgc agtgggtac gtggacgac cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cggcgccgt gtagagagca ggagaggcct gagtattggg 180
accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

<210> 175

<211> 546

<212> DNA

<213> Homo sapiens

<400> 175

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ggctccact ccatgaggtat ttctccacat ccgtgtccc gcccggcagt ggagagcccc 60
gcttcatcgc agtgggtac gtggacgac cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cggcgccgt gtagagagca ggagaggcct gagtattggg 180
accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac atggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

<210> 176
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 176
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 gtttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
 gcgacgtggg gtcggacggg cgttctctcc gcgggtatga acagcacgcc tacgacggca 360
 aggattacat cgcctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420
 agatcaccca gcgcaagtgg gaggcggccc gtcgggcgga gcagttgaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcacgg 546

<210> 177
 <211> 897
 <212> DNA
 <213> Homo sapiens

<400> 177
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 cagacctggg cgggctctca ctccatgagg ttttctaca cctccgtgc cggcccgcc 120
 agtggagagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagagg 240
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 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
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 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg 480
 gacatggcgg ctcatgac ccagcgcaag tgggaggcgg cccgttggc ggagcagttg 540
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660
 catgaggcca cctgagggtg ctgggccctg ggttctacc ctgcggagat cacactgacc 720
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
 ggggatggaa ccttcagaa gtgggcggct gtggtgtgc cttctggaga ggagcagaga 840
 tacacctgcc atgtgcagca tgagggtctg cccaagccc tcacctgag atgggag 897

<210> 178
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 178
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 gtttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
 accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
 gcgacgtggg gtcggacggg cgttctctcc gcgggtatga acagcacgcc tacgacggca 360
 aggattacat cgcctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcacgg 546

<210> 179
 <211> 822
 <212> DNA
 <213> Homo sapiens

<400> 179

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gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt ggagagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aagggccact cacagactga ccgagagAAC ctggggaccc 240
tgcggcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgcatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtcgggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacggaccc cccaagaca catatgaccc accacccat ctctgacct gaggccaccc 600
tgaggtgctg ggccttggg ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720
tcagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac acctgccatg 780
tgcagcatga gggctgtccc aagccctca cctgagatg gg 822

```

<210> 180

<211> 546

<212> DNA

<213> Homo sapiens

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<400> 180gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt ggagagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180
accaggagac acggaatgtg aagggccact cacagactga ccgagtggac ctggggaccc 240
tgcggcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcgcccc gttgggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

<210> 181

<211> 822

<212> DNA

<213> Homo sapiens

<400> 181

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aagggccact cacagactga ccgagagAAC ctggggaccc 240
tgcggcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
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agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacggaccc cccaagaca catatgaccc accacccat ctctgacct gaggccaccc 600
tgaggtgctg ggccttggg ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720
tcagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac acctgccatg 780
tgcagcatga gggctgtccc aagccctca cctgagatg gg 822

```

<210> 182

<211> 897

<212> DNA

<213> Homo sapiens

<400> 182

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atggccgtca tggcgccccg aacctctctc ctgctactct tgggggcctt ggcctgacc 60
cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120
cgcggggagc cccgcttcat cggctgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagagg 240
cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat tgaccgagtg 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
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gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatgtac ccagcgcaag tgggagggcg cccgtgtggc ggagcagttg 540
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gagacgtgc agcgacgga ccccccaag acgcatatga ctaccacgc tgtctctgac 660
catgaggcca cctgaggtg ctgggcccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cctccagaa gtgggcgtct gtgtgggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctc ccaagcccc tcacctgag atggggag 897

```

<210> 183

<211> 546

<212> DNA

<213> Homo sapiens

<400> 183

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gtccccctc catgaggtat ttaccacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcctgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaagtg aaggccact cacagattga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgc tacgacggca 360
aggattacat cgccttgaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

<210> 184

<211> 546

<212> DNA

<213> Homo sapiens

<400> 184

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gtccccctc catgaggtat ttaccacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcctgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aaggccact cacagattga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgt tacgacggca 360
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

<210> 185

<211> 897

<212> DNA

<213> Homo sapiens

<400> 185

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atggccgtca tggcgccccg aacctctctc ctgctactct tgggggcctt ggcctgacc 60

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cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagt cgtgcggttc 180
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagagg 240
 cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat tgaccgagtg 300
 gacctgggga cctgcgcggt ctactacaac cagagcgagg ccggttctca caccatccag 360
 ataattgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcggtta ccggcaggac 420
 gcttacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcgcg 480
 gacatggcgg ctcatatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagtg 540
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600
 gagacgtgc agcgacgga ccccccaag acgcatatga ctaccacgc tgtctctgac 660
 catgaggcca cctgaggtg ctgggcccgt agcttctacc ctgcggagat cacactgacc 720
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
 ggggatggaa ccttcagaa gtgggcgtct gtgtgggtgc ctctggaca ggagcagaga 840
 tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcacctgag atgggag 897

<210> 186

<211> 546

<212> DNA

<213> Homo sapiens

<400> 186

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 gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
 accaggagac acggaatgtg aaggccact cacagattga ccgagtgga ctggggaccc 240
 tgcgcggtta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360
 aggtattcat cgccttgaac gaggacctgc gctcttgga cgcggcgga atggcggtc 420
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
 gcacgg 546

<210> 187

<211> 546

<212> DNA

<213> Homo sapiens

<400> 187

gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60
 gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
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<212> DNA

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<211> 897

<212> DNA

<213> Homo sapiens

<400> 204

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<211> 546

<212> DNA

<213> Homo sapiens

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<211> 546

<212> DNA

<213> Homo sapiens

<400> 206

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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180
 accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240

tgcggcgcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300
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<210> 207

<211> 546

<212> DNA

<213> Homo sapiens

<400> 207

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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
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 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagttgaga gcctacctgg 480
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 gcacgg 546

<210> 208

<211> 897

<212> DNA

<213> Homo sapiens

<400> 208

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 cgccgggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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 ggggatggaa cttccagaa gtggcggtg gtgtcttc cttctggaga ggagcagaga 840
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<210> 209

<211> 546

<212> DNA

<213> Homo sapiens

<400> 209

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 cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
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 agatcaccaa gcgaagtgg gaggcggtcc atgcggcgga gcagcggaga gcctacctgg 480
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 gcacgg 546

<210> 210<211> 897

<212> DNA

<213> Homo sapiens

<400> 210

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 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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 agagtctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
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 catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720
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 ggggatggaa ccttcagaa gtggcggtg gtggtgtgc cttctggaga ggagcagaga 840
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<210> 211

<211> 546

<212> DNA

<213> Homo sapiens

<400> 211

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 gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360
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 agatcaccaa gcgaagtgg gaggcggtcc atgcggcgga gcagcggaga gtctacctgg 480
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 gcacgg 546

<210> 212

<211> 897

<212> DNA

<213> Homo sapiens

<400> 212

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 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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gggatggga ccttcagaa gtgggcgtct gtgtgtgtgc cttctggaca ggagcagaga 840
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<210> 213
<211> 897
<212> DNA
<213> Homo sapiens

<400> 213
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tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
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<210> 214
<211> 897
<212> DNA
<213> Homo sapiens

<400> 214
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cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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<210> 215
<211> 546
<212> DNA
<213> Homo sapiens

<400> 215

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agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

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<210> 216

<211> 546

<212> DNA

<213> Homo sapiens

<400> 216

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gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240
tgcgcgcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgct tacgacggca 360
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gcacgg 546

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<210> 217

<211> 897

<212> DNA

<213> Homo sapiens

<400> 217

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cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtc 180
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ggggatggaa cctccagaa gtgggtggct gtggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg ccaagcccc tcacctgag atggggag 897

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<210> 218

<211> 897

<212> DNA

<213> Homo sapiens

<400> 218

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cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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<210> 219
 <211> 897
 <212> DNA
 <213> Homo sapiens

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<400> 219
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cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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<210> 220
 <211> 897
 <212> DNA
 <213> Homo sapiens

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gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
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tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
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<210> 221
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 221
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 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcacgg 546

<210> 222
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 222
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 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gagtattggg 180
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 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
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 gcacgg 546

<210> 223
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 223
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 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gagtattggg 180
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 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360
 aggattacat cgccctgaaa gaggacctgc gctcttgac gcggcgccgac atggcagctc 420
 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcacgg 546

<210> 224
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 224

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gtccccactc catgaggtat ttctacactt ccgtgtcccc gcccgccgc ggggagcccc 60
gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc ggggtatga acagcacgcc tacgacggca 360
aggattacat gccttgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagtggaga gctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

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<210> 225

<211> 546

<212> DNA

<213> Homo sapiens

<400> 225

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gtccccactc catgaggtat ttctacactt ccgtgtcccc gcccgccgc ggggagcccc 60
gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc ggggtaccg gcagcacgcc tacgacggca 360
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agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagtggaga gctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

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<210> 226

<211> 897

<212> DNA

<213> Homo sapiens

<400> 226

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atggccgtca tggcgcccc aacctcgtc ctgctactct cggggccct ggcctgacc 60
cagacctggg cgggctcca ctccatgagg ttttttaca cctccgtgc cggcccgcc 120
cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtcggttc 180
gacagcgacg ccgagacca gaggatggag ccgcgccgc cgtggataga gcaggagggg 240
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gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
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gcctacgacg gcaaggatta catcgccctg aaagaggc gctcttg gaccgcggcg 480
gacatggcag ctacaccac caagcacaag tgggaggcgg cccatgtggc ggagcagctg 540
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gagacgtgc agcgacgga cggcccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca ccctgaggtg ctgggcccctg agcttctacc ctgggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cttccagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg ccgaagccc tcacctgag atggggag 897

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<210> 227

<211> 546

<212> DNA

<213> Homo sapiens

<400> 227

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gctccactc catgaggtat ttctacactt cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgagccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360
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agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

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<210> 228

<211> 546

<212> DNA

<213> Homo sapiens

<400> 228

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gctccactc catgaggtat ttctacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180
accgagagac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgagccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

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<210> 229

<211> 579

<212> DNA

<213> Homo sapiens

<400> 229

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accctcgtcc gtctacttc gggggccctg gccctgacct agacctgggc gggtccac 60
tccatgaggt atttctacac ttccgtgtcc cgcccgcc gcggggagcc ccgcttcac 120
gccgtgggt acgtggagca cagcagttc gtgcggttc acagcgacgc cgcgagccag 180
aggatggagc cgcggcgcc gtggatagag caggaggggc cggagtattg ggaccggaac 240
acacggaatg tgaaggcca gtcacagact gaccgagtgg acctggggac ctcgcggc 300
tactacaacc agagcgagcg cggttctac accatccaga tgatgtatgg ctgcgacgtg 360
gggtcggacg ggcgcttct ccgcgggtac cgcgaggacg cctacgacgg caaggattac 420
atgccctga aagaggacct gcgctcttg acccgggcgg acatggcagc tcagatcacc 480
aagcacaagt gggaggcgcc ccatgtggcg gagcagtgga gacacctt ggagggcagc 540
tgcgtggagt ggtccgcag atacctggag aacgggaag 579

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<210> 230

<211> 866

<212> DNA

<213> Homo sapiens

<400> 230

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cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggcgcc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300

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gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccggcaggac 420
 gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgctcttg gaccgcggcg 480
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 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
 gagacgtgc agcgacgga cgcggccaaa acgcatatga ctcaccacgc tgtctctgac 660
 catgaagcca ccctgaggtg ctgggcccctg agcttctacc ctgcggagat cacactgacc 720
 tggcagcggg atggggagga ccagaccag gacacggagc tctggagac caggcctgca 780
 ggggatggaa ccttcagaa gtgggtggct gtgggtgtgc ctctggaca ggagcagaga 840
 tacacctgcc atgtgcagca tgaggg 866

<210> 231
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 231
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 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
 acgaggagac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcgcgg 546

<210> 232
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 232
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 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
 accggaacac acggaatgtg aaggccact cacagactca ccgagtggac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg atgtatggct 300
 gcgacgtggg gtcggacggg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
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 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcacgg 546

<210> 233
 <211> 615
 <212> DNA
 <213> Homo sapiens

<400> 233
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 cctgggcggg ctccactcc atgaggtatt tctacacttc cgtgtcccg cccggccgag 120
 gggagcccc ctctatgcc gtgggctacg tggacgacac gcagttcgtg cggttcgaca 180
 gcgacgccg gagccagagg atggagccgc gggcgccgtg gatagagcag gaggggcccg 240
 agtattggga ccggaacaca cggaatgtga agggccagtc acagactgac cgagtggacc 300
 tggggacctc gcgcggctac tacaaccaga gcgaggccgg ttctcacacc atccagatga 360

tgtatggctg cgacgtgggg tcggacgggc gcttcctccg cgggtaccgg caggacgcct 420
 acgacggcaa ggattacatc gccctgaaag aggacctgcg ctcttgacc gcggcggaca 480
 tggcagctca gaccaccaag cacaagtggg aggcggccct tgtggcggag cagtggagag 540
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 cgctgcagcg cacgg 615

<210> 234
 <211> 897
 <212> DNA
 <213> Homo sapiens

<400> 234
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 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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 gcctacgacg gcaaggatta catgcctg aaagaggacc tgcgctcttg gaccgcggcg 480
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 ggggatgga cttccagaa gtgggtggct gtggtgggc cttctggaca ggagcagaga 840
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<210> 235
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 235
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 cgagccagag gatggagcgg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
 accggaacac acggaatgtg aaggccagc cacagactga ccgagtggac ctggggaccc 240
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 gcgacgtggg gtccgacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360
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 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
 gcacgg 546

<210> 236
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 236
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 gttcatgcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
 cgagccagag gatggagcgg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
 accggaacac acggaatgtg aaggccact cacagactca ccgagtggac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
 gcgacgtggg gtccgacggg cacttctcc gcgggtaccg gcaggacgcc tacgacggca 360

aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420
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 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
 gcacgg 546

<210> 237
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 237
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 cgagccagag gatggagccg cgggcgccgt gcatagagca ggaggggccg gattattggg 180
 accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
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 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
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 gcacgg 546

<210> 238
 <211> 897
 <212> DNA
 <213> Homo sapiens

<400> 238
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 ggggatggaa ccttcagaa gtgggtggct gtggtgtgc cttctggaca ggagcagaga 840
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<210> 239
 <211> 546
 <212> DNA
 <213> Homo sapiens
 <400> 239

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 cgagccagag gatggagccg cgggcgccgt gcatagagca ggaggggccg gattattggg 180
 accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240
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 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480

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gcacgg 546

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<211> 897
<212> DNA
<213> Homo sapiens

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gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
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tggcagcggg atggggagga ccagaccag gacacggagc tctggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggcgtct gtggtgtgc cttctggaca ggagcagaga 840
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<210> 241
<211> 897
<212> DNA
<213> Homo sapiens

<400> 241
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cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
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gacatggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540
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tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggcgtct gtggtgtgc cttctggaca ggagcagaga 840
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<210> 242
<211> 619
<212> DNA
<213> Homo sapiens

<400> 242
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cagacctggg cgggctccca ctccatgagg tattttctca catcgtgtc cgggcccggc 120
cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagt 300

gacctgggga ccttgcgagg ctactacaac cagagcgagg ccggttctca caccatccag 360
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 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgctcttg gaccgaggcg 480
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagttg 540
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
 gagacgctgc agcgacgg 619

<210> 243
 <211> 619
 <212> DNA
 <213> Homo sapiens

<400> 243
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 cgcgggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtt 180
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
 ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagt 300
 gacctggcga ccttgcgagg ctactacaac cagagcgagg ccggttctca caccatccag 360
 atgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgaggga ccagcaggac 420
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgctcttg gaccgaggcg 480
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagttg 540
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 gcgagccaga ggatggagcc gggggcgccg tggatagagc aggagggtcc ggagtattgg 180
 gacggggaga cagggaaagt gaaggccac tcacagactg accgagtggc cctggggacc 240
 ctgcgggct actacaacca gagcgaggcc ggttctaca ccatccagat gatgtatggc 300
 tgcgacgtgg ggcgggacgg gcgctcctc cgcgggtacc agcaggacgc ctacgacggc 360
 aaggattaca tgccttgaa cgaggacctg cgctcttga ccgcggcgga catggcggt 420
 cagatcacc agcgcaagt ggaggcgcc cgtgtggcg agcagttgag agcctacctg 480
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 cgagccagag gatggagccg cggggcgccg gcatagagca gggggggccg gaggattggg 180
 accaggagac acggaatgtg aaggccact cacaggctga ccagtggtgac ctggggaccc 240
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggc 300
 gcgacgtggg gccggacggg cgctcctcc gcgggtacca gcaaggaccc tacgaaggca 360
 aggattacat gccttgaac gaggacctgc gctcttgac cgcggcgga atggcgctc 420
 agatcaccca gcgcaagtgg gaggcgccc ggtgtggcga gcaattgaga gcctacctg 480
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gcacgg

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accaggagac acggaatgtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgccgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
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gcacg 545

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accaggagac acggaatgtg aaggccact cacagattga ccgagtggac ctggggaccc 240
tgccgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc tacgacggca 360
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gcacgg 546

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accaggagac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240
tgccgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc tacgacggca 360
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gcacgg 546

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<400> 249

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 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180
 accaggagac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240
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 gcgacgtggg gccggacggg cgctctcc gcgggtacca gcaggacgcc tacgacggca 360
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 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
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<212> DNA

<213> Homo sapiens

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 cgcggggagc cccgttcat cgcagtgggc tacgtggacg actcgcagtt cgtgcagttc 180
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 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360
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 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
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ctgagagcct acctggat

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tggatagagc aggagggt

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 <213> Homo sapiens

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<210> 569
 <211> 822
 <212> DNA
 <213> Homo sapiens

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<210> 570
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 571
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<210> 572
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 <212> DNA
 <213> Homo sapiens

<400> 572
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<210> 573

<211> 1017
 <212> DNA
 <213> Homo sapiens

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 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 574
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 gcgagg 546

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 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 576
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 <213> Homo sapiens

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<210> 581
 <211> 822
 <212> DNA
 <213> Homo sapiens

<400> 581

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<210> 582

<211> 546

<212> DNA

<213> Homo sapiens

<400> 582

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<211> 619

<212> DNA

<213> Homo sapiens

<400> 583

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gacaccggg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcac gtgcgtggag tggctcgca gacacctgga gaacgggaag 600
gagacgtgc agcgcggg 619

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<210> 584

<211> 546

<212> DNA

<213> Homo sapiens

<400> 584

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gctccactc catgaggtat ttctacaccg cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccc gaattattggg 180
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctcc ccgggtataa ccagttcgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 585
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 585
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gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccc gaattattggg 180
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aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 586
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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<400> 586
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gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccggcccgc 120
cgcggggagc ccgcttcat cgcagtggc tacgtggac acaccagtt cgtgaggtc 180
gacagcgagc ccgcagtc gaggatggc cccggggc catggataga gcaggagggg 240
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gctacgagc gcaaggatta catgcccctg aacgaggacc tgagctctg gaccgcccg 480
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catgaggcca cctgaggtg ctgggcccgt ggttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtggtc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagccc tcacctgag atgggagcca 900
tcttccagc ccacatccc catcgtggc attgttctg gctgggtgt cctagcagtt 960
gtggtcatcg gagctgtgt cgtactgtg atgtgttaga ggaagagtc aggtgga 1017

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<210> 587
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 587

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gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcggag gatggcgccc cgggcgccat gtagagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtcgcc tacgacggca 360
aagattacat cgccctgaac gaggacctga gtcctggac cgcgccggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 588

<211> 546

<212> DNA

<213> Homo sapiens

<400> 588

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gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcggag gatggcgccc cgggcgccat gtagagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
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gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtcgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 589

<211> 546

<212> DNA

<213> Homo sapiens

<400> 589

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gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gcggttcgac agcgacgccg 120
cgagtcggag gatggcgccc cgggcgccat gtagagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gtcctggac cgcgccggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 590

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 590

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atgcgggtca cggcgcccc aaccgtctc ctgctgctc cgggagccct ggcctgacc 60
gagacctggg ccggtctcca ctccatgagg ttttttaca ccgcatgtc ccggcccgcc 120
cgcggggagc ccgcttcat cgcagtggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgagc ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300

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agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
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tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
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tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgtgtg gcttggtgt cctagcagtt 960
gtgtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

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<210> 591
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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<400> 591
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cgcggggagc cccgcttcat ctcatgggc tacgtggacg acacgcagtt cgtgaggttc 180
gcagcgcagc ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
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gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
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ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgtgtg gcttggtgt cctagcagtt 960
gtgtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

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<210> 592
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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<400> 592
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gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg cccggggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
acgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
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tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900

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tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960
gtgtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 593
<211> 945
<212> DNA
<213> Homo sapiens

<400> 593
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cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120
gcgagtcga ggtggcgcc ccggcgcca tggatagagc aggaggggcc ggagtattgg 180
gaccgggaga cacagatctc caagaccaac acacagactt accgagagag cctgcggaac 240
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tgcgacgtgg ggccggacgg gcgcctctc cgcgggcatg accagtccgc ctacgacggc 360
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cagatcacc agcgcaagt ggagggcgcc cgtgtggcg agcagctgag agcctacctg 480
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cgcgcggaacc cccaaagac acatgtgacc caccaccca tctctgacca tgaggccacc 600
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ggcgaggacc aaactcagga caccagctt gtggagacca gaccagcagg agatagaacc 720
ttccagaagt gggcagctgt ggtggtgct tctggagaag agcagagata cacatgcat 780
gtacagcatg aggggctgcc gaagccctc accctgagat gggagccatc ttcccagtc 840
accatcccca tcgtgggcat tgttctggc ctggtgtcc tagcagttgt ggtcatcgga 900
gctgtggtcg ctactgtgat gttaggagg aagagctcag gtgga 945

<210> 594
<211> 945
<212> DNA
<213> Homo sapiens

<400> 594
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cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120
gcgagtcga ggtggcgcc ccggcgcca tggatagagc aggaggggcc ggagtattgg 180
gaccgggaga cacagatctc caagaccaac acacagactt accgagagag cctgcggaac 240
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cgcgcggaacc cccaaagac acatgtgacc caccaccca tctctgacca tgaggccacc 600
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accatcccca tcgtgggcat tgttctggc ctggtgtcc tagcagttgt ggtcatcgga 900
gctgtggtcg ctactgtgat gttaggagg aagagctcag gtgga 945

<210> 595
<211> 945
<212> DNA
<213> Homo sapiens

<400> 595
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cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120

gcgagtcgga ggatggcgcc ccgggcccga tggatagagc aggaggggcc ggagtattgg 180
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cagatcacc agcgcaagtg ggaggcggcc cgtgaggcgg agcagtggag agcctacctg 480
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gctgtgtcg ctactgtgat gttaggagg aagagtcag gtgga 945

<210> 596
<211> 1017
<212> DNA
<213> Homo sapiens

<400> 596
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gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat ctcagtggc tacgtggacg acaccagtt cgtgaggttc 180
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<210> 597
<211> 1017
<212> DNA
<213> Homo sapiens

<400> 597
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cgcggggagc ccgcttcat ctcagtggc tacgtggacg acacgagtt cgtgaggttc 180
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catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720
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 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
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<210> 598
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 598
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 cgcgggggagc ccgcttcat ctcatgtggc tacgtggacg acacgcagtt cgtgaggttc 180
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 ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300
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 aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtac 420
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 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 599
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 599
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<210> 622

<211> 546

<212> DNA

<213> Homo sapiens

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<211> 546

<212> DNA

<213> Homo sapiens

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gcgcgg 546

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<211> 546

<212> DNA

<213> Homo sapiens

<400> 624

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<211> 546

<212> DNA

<213> Homo sapiens

<400> 625

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<211> 546

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<213> Homo sapiens

<400> 626

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<211> 546

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 628

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<211> 619

<212> DNA

<213> Homo sapiens

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<210> 633

<211> 546

<212> DNA

<213> Homo sapiens

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gcgcgg 546

<210> 634

<211> 546

<212> DNA

<213> Homo sapiens

<400> 634

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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480
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<210> 635

<211> 546

<212> DNA

<213> Homo sapiens

<400> 635.

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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
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<211> 546

<212> DNA

<213> Homo sapiens

<400> 636

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gcgcgg 546
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<210> 637

<211> 546

<212> DNA

<213> Homo sapiens

<400> 637

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agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546
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<210> 638

<211> 619

<212> DNA

<213> Homo sapiens

<400> 638

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cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180
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 gagacgctgc agcgcgcgg 619

<210> 639
 <211> 619
 <212> DNA
 <213> Homo sapiens

<400> 639
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 gagacgctgc agcgcgcgg 619

<210> 640
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 640
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 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt ctagcagtt 960
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<210> 641
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 641

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cgcggggagc cccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc	180
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gctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgaggc	480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg	540
agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag	600
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tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca	780
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tacacatgcc atgtacaga tgaggggctg ccgaagcccc tcacctgag atgggagcca	900
tcttccagt ccaccatccc catcgtgggc attgtgtgtg gcctggctgt cctagcagtt	960
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<210> 642

<211> 546

<212> DNA

<213> Homo sapiens

<400> 642

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cgagtccgag gatggcgccc cgggcgcat ggatagagca ggaggggccc gagtattggg	180
accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc	240
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggt	300
gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtcgcc tacgacgca	360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggtc	420
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg	480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc	540
gcgcgg	546

<210> 643

<211> 615

<212> DNA

<213> Homo sapiens

<400> 643

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cctgggcccg ctcccactcc atgaggtatt tctacaccgc catgtcccgg cccggccgcg	120
gggagccccg cttcatcgca gtgggctacg tggacgacac ccagttcgtg aggttcgaca	180
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agtattggga cggggagaca cagatctcca agaccaacac acagacttac cgagtgaacc	300
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cctacctgga gggcctgtgc gtggagtggc tccgcagata cctggagaa ggaaggaga	600
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<210> 644

<211> 619

<212> DNA

<213> Homo sapiens

<400> 644

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gagacctggg cgggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc	120
cgcggggagc cccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc	180
gcacagcgag ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg	240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag	300
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gacacggcgg ctacagtcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg	540
agagcctacc tggaggcct gtgcgtggag tggctccgca gatactgga gaacgggaag	600
gagacgtgc agcgcgagg	619

<210> 645

<211> 546

<212> DNA

<213> Homo sapiens

<400> 645

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cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg gattattggg	180
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gcgacgtggg gccggacggg cgctctcc gcgggcatga ccagtcgcc tacgacggca	360
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agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc	540
gcgcgg	546

<210> 646

<211> 546

<212> DNA

<213> Homo sapiens

<400> 646

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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg gattattggg	180
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc	240
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gcgacgtggg gccggacggg cgctctcc gcgggcatga ccagtcgcc tacgacggca	360
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agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtgaga gcctacctgg	480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc	540
gcgcgg	546

<210> 647

<211> 546

<212> DNA

<213> Homo sapiens

<400> 647

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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
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 gcgcgg 546

<210> 648
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<210> 649
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 649
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 gcgcgg 546

<210> 650
 <211> 546
 <212> DNA
 <213> Homo sapiens

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agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

<210> 651
<211> 1017
<212> DNA
<213> Homo sapiens

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<210> 652
<211> 546
<212> DNA
<213> Homo sapiens

<400> 652
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gcgcgg 546

<210> 653
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<212> DNA
<213> Homo sapiens

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gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccc cgggcgcctt ggatagagca ggaggggccc gattattggg 180
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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <212> DNA
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<210> 659
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 <212> DNA
 <213> Homo sapiens

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 <211> 546
 <212> DNA
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<210> 661
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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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 gcgcgg 546

<210> 663
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 665

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gcgcgg 546

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<210> 666

<211> 546

<212> DNA

<213> Homo sapiens

<400> 666

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<211> 1017

<212> DNA

<213> Homo sapiens

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<211> 546

<212> DNA

<213> Homo sapiens

<400> 668

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<211> 546

<212> DNA

<213> Homo sapiens

<400> 669

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gcgcgg 546

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<211> 546

<212> DNA

<213> Homo sapiens

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<210> 671

<211> 546

<212> DNA

<213> Homo sapiens

<400> 671

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<210> 672
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 <212> DNA
 <213> Homo sapiens

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<400> 678

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 <213> Homo sapiens

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<210> 690

<211> 1017

<212> DNA

<213> Homo sapiens

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<210> 691

<211> 546

<212> DNA

<213> Homo sapiens

<400> 691

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gctcccaact catgaggtat ttccacacct ccgtgtccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttctg gaggttcgac agcgacgccg 120
cgagtccgag agaggagccc cggggccgt ggatagagca ggaggggccg gattattggg 180
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gcgcgg 546

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<210> 692
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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 cgcgggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
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 tcttccagc caccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
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<210> 693
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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 ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac tgaccgagag 300
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 aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccaggac 420
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccg 480
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<210> 694
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 694
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 cgcgggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
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<210> 695
 <211> 619
 <212> DNA
 <213> Homo sapiens

<400> 695
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 cgcggggagc cccgttcat caccgtggc tacgtggacg acacgtgtt cgtgaggttc 180
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 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
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 gagacgtgc agcgcgcg 619

<210> 696
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 696
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 gcttcatcac cgtgggctac gtggacgaca cgctgttctg gaggttcgac agcgacgccg 120
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 agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagctgaga gcctacctgg 480
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
 gcgcgg 546

<210> 697
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 697
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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120
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accgggagac acagatctgc aagaccaaca cacagactga ccgagaggac ctgcggaccc 240
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 698
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 698
gctccactc catgaggtat ttccacacct ccgtgtcccg gccgggccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120
cgagtcggag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagttttggg 180
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gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 699
 <211> 619
 <212> DNA
 <213> Homo sapiens

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<400> 699
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gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccgcc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc 180
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gacacggcgg ctcatgcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccga gatactgga gaacgggaag 600
gagacgctgc agcgcgcg 619

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<210> 700
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 700
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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120
cgagtcggag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac ctgcggaccc 240
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gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc tacgacggca 360

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aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420
 agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
 gcgcgg 546

<210> 701
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 701
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 gcttcatcac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcc 120
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180
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 agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga gcctacctgg 480
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 gcgcgg 546

<210> 702
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 702
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 agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga gcctacctgg 480
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 gcgcgg 546

<210> 703
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 703
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 gcgcgg 546

<210> 704
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 704
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 agatctccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagctgaga gcctacctgg 480
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 gcgcgg 546

<210> 705
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 705
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 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
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 gcgcgg 546

<210> 706
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 706
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 gacaccggg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
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 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
 gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 707
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 707
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<210> 712

<211> 1017
<212> DNA
<213> Homo sapiens

<400> 712

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<212> DNA
<213> Homo sapiens

<400> 713

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<212> DNA
<213> Homo sapiens

<400> 714

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 <212> DNA
 <213> Homo sapiens

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<213> Homo sapiens

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<210> 718

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 718

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<210> 719

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 719

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<211> 546
<212> DNA
<213> Homo sapiens

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<212> DNA
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<210> 722
<211> 1017
<212> DNA
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catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtgggtgtgc cttctggaga agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
 tcttccagtc ccacatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
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<210> 723
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 723
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 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
 accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagc atgtacggct 300
 gcgacgtggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360
 aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac accgcggctc 420
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
 gcgcgg 546

<210> 724
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 724
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 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagc atgtacggct 300
 gcgacgtggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360
 aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac accgcggctc 420
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
 gcgcgg 546

<210> 725
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 725
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 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
 gcgacctggg gcccgacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
 aggattacat cgccctgaac gaggacctgc gctctggac cgcgccggac accgcggctc 420
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga gcctacctgg 480
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
 gcgcgg 546

<210> 726

<211> 546
<212> DNA
<213> Homo sapiens

<400> 726
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gtttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggagggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300
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aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

<210> 727
<211> 546
<212> DNA
<213> Homo sapiens

<400> 727
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gtttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300
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aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

<210> 728
<211> 546
<212> DNA
<213> Homo sapiens

<400> 728
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gtttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300
gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgggccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

<210> 729
<211> 546
<212> DNA
<213> Homo sapiens

<400> 729
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

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gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcggag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccgcaggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

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<210> 730
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 730gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
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cgagtcggag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtttggct 300
gcgacgtggg gccgcaggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

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<210> 731
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 731
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcggag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacgtggg gccgcaggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

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<210> 732
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 732
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gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcggag agaggagccc cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacgtggg gccgcaggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480

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agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

<210> 733
<211> 546
<212> DNA
<213> Homo sapiens

<400> 733
gtccccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccc.cggcgccat ggatagagca ggaggggccg gaattattggg 180
accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300
gcgacctggg gcccgacggg gcctcctcc gcggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

<210> 734
<211> 546
<212> DNA
<213> Homo sapiens

<400> 734
gtccccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc.cggcgccat ggatagagca ggaggggccg gattattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaa ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300
gcgacctggg gcccgacggg gcctcctcc gcggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

<210> 735
<211> 619
<212> DNA
<213> Homo sapiens

<400> 735
atgcgggtca cggcgccccg aaccgtctc ctgtgtctt ggggggcagt ggccctgacc 60
gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat cgagtgggc tacgtggac acaccagtt cgtgaggttc 180
gacagcgacg ccgagatcc gaggacggag ccccgggcg catggataga gcaggagggg 240
ccgagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccggggca tgaccagtc 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg 480
gacaccggc ctcagatcac ccagcgcaag tgggagggcg ccggtgtggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccga gatacttga gaacgggaag 600
gagacgtgc agcgcgcg 619

<210> 736

<211> 546
 <212> DNA
 <213> Homo sapiens

<400> 736
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 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
 tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtcgcc tacgacggca 360
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420
 agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga gcctacctgg 480
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
 gcgcgg 546

<210> 737
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 737
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 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
 tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagc atgtacggct 300
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtcgcc tacgacggca 360
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 agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcagctgaga gcctacctgg 480
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
 gcgcgg 546

<210> 738
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 738
 atgcgggtca cggcgccccg aaccgtctc ctgctgctt ggggggcagt ggccctgacc 60
 gagacctggg ccggctcca ctccatgagg ttttctaca ccgcatgtc ccggcccgcc 120
 cgcggggagc ccgcttcat cgcagtggc tacgtggacg acacccagtt cgtgaggttc 180
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 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
 agcatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggca taaccagtac 420
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcccgc 480
 gacacggcgg ctacatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600
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 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720
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 tcttccagat ccaccgtccc catcgtggc attgtgtgtg gcctggctgt cctagcagtt 960
 gtggtcatcg gagctgtgtg cgctgtgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 739
<211> 546
<212> DNA
<213> Homo sapiens

<400> 739
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gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180
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aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gagcgggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

<210> 740
<211> 564
<212> DNA
<213> Homo sapiens

<400> 740tgaccgagac ctgggcggc tccactcca tgaggtattt ctacaccgc atgtccggc 60
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ggttcgacag cgacgccgc agtccgagga cggagcccc ggcccatgg atagagcagg 180
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agttcgccta cgacggcaag gattacatcg cctgaacga ggacctgagc tctggaccg 420
cggcgacac cgcggctcag atcaccagc gcaagtggga ggccggccgt gtggcgagc 480
agctgagagc ctacctggag ggcgagtgcg tggagtggct ccgagatac ctggagaacg 540
ggaaggagac gctgcagcgc gcgg 564

<210> 741
<211> 546
<212> DNA
<213> Homo sapiens

<400> 741
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gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ~~ggtctcacat~~ ~~cacagagg~~ atgtatggct 300
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aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gagcgggccc ~~gtgtggcgga~~ ~~gcagctgaga~~ gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

<210> 742
<211> 546
<212> DNA
<213> Homo sapiens

<400> 742
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

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gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

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<210> 743
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 743
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gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcgacta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

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<210> 744
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 744
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gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
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gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
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gcgcgg 546

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<210> 745
 <211> 548
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (547)..(547)
 <223> n is a, c, g, or t

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<400> 745
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 agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcaggacaga gcctacctgg 480
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 gcgcgdna 548

<210> 746
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 cgagtccgag gacggagccc cggggcccat ggatagagca ggagggggccg gagtattggg 180
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 gcgacgtggg gccggacggg gcctcctcc gcgggcatga ccagtacgcc tacgacggca 360
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 agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagtgaga gcctacctgg 480
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
 gcgcgg 546

<210> 747
 <211> 912
 <212> DNA
 <213> Homo sapiens

<400> 747
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 caccagttc gtgaggttcg acagcgacgc cgcgagtcg aggacggagc cccgggcgcc 180
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 cacacagact taccgagaga gcctgcgga cctgcgcggc tactacaacc agagcgagge 300
 cgggtctcac atcatccaga ggatgtatgg ctgcgacctg gggcccgacg ggcgcctcct 360
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 gagtctctgg accgcggcgg acaccgcggc tcagatcacc cagcgcaagt gggaggcggc 480
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 ccaccacccc gtctctgacc atgaggccac cctgaggtgc tgggccttg gcttctacc 660
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 tgtggagacc agaccagcag gagatagaac ctccagaag tgggcagctg tgggtgtgcc 780
 ttctggagaa gagcagagat acatgcca tctacagcat gaggggctgc cgaagccct 840
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 cctggctgtc ct 912

<210> 748
 <211> 1012
 <212> DNA
 <213> Homo sapiens

<400> 748
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gagacctggg ctggctcca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
 cgccggggagc cccgcttcat cgcatgggc tacgtggacg acaccagtt cgtgaggttc 180
 gacagcgacg ccgagagtc gaggacggag ccccgggcg catggataga gcaggagggg 240
 ccgaggtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360
 aggatgtatg gctgcgacct ggggcccggc ggggcctcc tccggggca tgaccagtc 420
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 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720
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 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
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 tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
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<210> 749
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 749
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 cgccggggagc cccgcttcat cgcatgggc tacgtggacg acaccagtt cgtgaggttc 180
 gacagcgacg ccgagagtc gaggacggag ccccgggcg catggataga gcaggagggg 240
 ccgaggtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360
 aggatgtacg gctgcgacct ggggcccggc ggggcctcc tccggggca tgaccagtc 420
 gcctacgacg gcaaggatta catgcccctg aacgaggacc tgagctcctg gaccgcgcg 480
 gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacttga gaacgggaag 600
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 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720
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 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
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 tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
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<210> 750
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 cgagtcgag gcaggagccc cggcgccat ggatagagca ggaggggccc gattattggg 180
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 agatcaccca gcgaagtgg gagggggccc gtgaggcgga gcagtggaga gcctacctgg 480
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 gcgcgg 546

<210> 751
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 751
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 cgagtccgag gacggagccc cggcgccat ggatagagca ggagggggccg gagtattggg 180
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 gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgc tacgacggca 360
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 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagcggaga gcctacctgg 480
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 gcgcgg 546

<210> 752
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
 gacaccgagg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
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 tcttccagc ccaccatccc catcgtggc attgtgtgt gctgtgtgt cctagcagtt 960
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<210> 753
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 753
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 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccggc 120
 cgcggggagc ccgcttcat ctcaagtggc tacgtggacg acaccagtt cgtgaggttc 180
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 aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccaggac 420
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catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
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 tcttcccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
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<210> 754

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 754

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 cgcggggagc ccgcttcat ctactgggc tacgtggacg acaccagtt cgtgaggttc 180
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc cgtggataga gcaggagggg 240
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
 gacctgcgga ccctgctccg ctactacaac cagagcgagg ccgggtctca caccatccag 360
 aggatgtctg gctgcgacgt ggggccggac gggcgctcc tcccgggta taaccagttc 420
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 gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
 agagcctacc tggagggcac gtgcgtggag tggtccgca gacacctgga gaacgggaag 600
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
 catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
 tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
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<210> 755

<211> 619

<212> DNA

<213> Homo sapiens

<400> 755

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 cgcggggagc ccgcttcat ctactgggc tacgtggacg acaccagtt cgtgaggttc 180
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 gacctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccatccag 360
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 gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
 agagcctacc tggagggcac gtgcgtggag tggtccgca gatacctgga gaacgggaag 600
 gagacgtgc agcgcgagg 619

<210> 756

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 756

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 gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120

cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180
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 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360
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 gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
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 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
 gtggtcatcg gagctgtgt cgctgctgtg atgttagga ggaagagttc aggtgga 1017

<210> 757

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 757

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 cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180
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 aacctgcgga ccgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360
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 tcttccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
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<210> 758

<211> 546

<212> DNA

<213> Homo sapiens

<400> 758

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 cgagtccgag agaggagccg cgggcgcctg ggaatagaca ggaggggccg gaattattggg 180
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 gcgacgtggg gccggacggg gcctcctcc gcgggcataa ccagttcgc tacgacggca 360
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 agatcaccca gcgaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480
 agggcagctg cgtggagtg ctccgagat acctggagaa cgggaaggag acgtgcagc 540
 gcgcgg 546

<210> 759
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180
 accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcgcaccg 240
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 <212> DNA
 <213> Homo sapiens

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 <211> 546
 <212> DNA

<213> Homo sapiens

<400> 762

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gcgcgg 546
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<210> 763

<211> 546

<212> DNA

<213> Homo sapiens

<400> 763

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gcgcgg 546
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<210> 764

<211> 546

<212> DNA

<213> Homo sapiens

<400> 764

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gcgcgg 546
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<210> 765

<211> 548

<212> DNA

<213> Homo sapiens

<220>

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<223> n is a, c, g, or t

<400> 765

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gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca    360
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<211> 1017

<212> DNA

<213> Homo sapiens

<400> 766

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<210> 767

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 767

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<210> 768
 <211> 546
 <212> DNA
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<400> 768
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<210> 769
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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<210> 770
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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 774
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<213> Homo sapiens

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<210> 776

<211> 413

<212> DNA

<213> Homo sapiens

<400> 776

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<210> 777

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 777

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<210> 778

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 778

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<210> 779

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 779

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<210> 780

<211> 677

<212> DNA

<213> Homo sapiens

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taccctgcgg agatcacact gacctggcag cgggatggcg aggaccaaac tcaggacacc 660
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<210> 781
<211> 546
<212> DNA
<213> Homo sapiens

<400> 781
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gcgcgg 546

<210> 782
<211> 546
<212> DNA
<213> Homo sapiens

<400> 782
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gcgcgg 546

<210> 783
<211> 546
<212> DNA
<213> Homo sapiens

<400> 783
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accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
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gcgcgg 546

<210> 784
<211> 546

<212> DNA

<213> Homo sapiens

<400> 784

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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaattattggg 180
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agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546
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<210> 785

<211> 546

<212> DNA

<213> Homo sapiens

<400> 785

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agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546
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<210> 786

<211> 619

<212> DNA

<213> Homo sapiens

<400> 786

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<210> 787

<211> 546

<212> DNA

<213> Homo sapiens

<400> 787

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 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
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<210> 788

<211> 546

<212> DNA

<213> Homo sapiens

<400> 788

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 gcgcgg 546

<210> 789

<211> 546

<212> DNA

<213> Homo sapiens

<400> 789

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<210> 790

<211> 546

<212> DNA

<213> Homo sapiens

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gcgcgg 546

<210> 791
<211> 546
<212> DNA
<213> Homo sapiens

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<210> 792
<211> 1017
<212> DNA
<213> Homo sapiens

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<210> 793
<211> 546
<212> DNA
<213> Homo sapiens

<400> 793
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<210> 794
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<210> 795
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 795
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<210> 797

<211> 822

<212> DNA

<213> Homo sapiens

<400> 797

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<211> 1017

<212> DNA

<213> Homo sapiens

<400> 798

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 801
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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<210> 802
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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<210> 803
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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<211> 1017
<212> DNA
<213> Homo sapiens

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<210> 805
<211> 546
<212> DNA
<213> Homo sapiens

<400> 805
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<210> 806
<211> 546
<212> DNA
<213> Homo sapiens

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<210> 807
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<210> 808
 <211> 619
 <212> DNA
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<211> 546
<212> DNA
<213> Homo sapiens

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<210> 811
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<212> DNA
<213> Homo sapiens

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gcgctg 546

<210> 812
<211> 546
<212> DNA
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gcgctg 546

<210> 813
<211> 619
<212> DNA
<213> Homo sapiens

<400> 813

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<210> 814

<211> 546

<212> DNA

<213> Homo sapiens

<400> 814

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<210> 815

<211> 546

<212> DNA

<213> Homo sapiens

<400> 815

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<210> 816

<211> 619

<212> DNA

<213> Homo sapiens

<400> 816

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gcgcgg 546

<210> 820
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<212> DNA
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<210> 821
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<212> DNA
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gcgcgg 546

<210> 822
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<212> DNA
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gcgcgg 546

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gcgcgg 546

<210> 824
<211> 546
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gcgcgg 546

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<210> 833
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<212> DNA

<213> Homo sapiens

<400> 833

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gcgctg 546

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<210> 834

<211> 912

<212> DNA

<213> Homo sapiens

<400> 834

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<210> 835

<211> 546

<212> DNA

<213> Homo sapiens

<400> 835

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gcgcgg 546

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<210> 836

<211> 546

<212> DNA

<213> Homo sapiens

<400> 836

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agatctccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg	480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc	540
gcgctg	546

<210> 837

<211> 546

<212> DNA

<213> Homo sapiens

<400> 837

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agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc	540
gcgctg	546

<210> 838

<211> 546

<212> DNA

<213> Homo sapiens

<400> 838

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cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg	180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc	240
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<210> 839

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 839

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cgcggggagc cccgttcat caccgtggc tacgtggacg acacgtgtt cgtgaggtc	180

gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
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<210> 840
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 840
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<210> 841
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 841
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<210> 842

<211> 546
 <212> DNA
 <213> Homo sapiens

<400> 842
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 gcgcgg 546

<210> 843
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 843
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
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 gcgcgg 546

<210> 844
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 844
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 gcgcgg 546

<210> 845
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 845
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<210> 846
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 846
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<210> 847
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 847
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 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcg 120
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<210> 848
 <211> 1052
 <212> DNA
 <213> Homo sapiens

<400> 848

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<210> 849
 <211> 822
 <212> DNA
 <213> Homo sapiens

<400> 849
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<210> 850
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 <212> DNA
 <213> Homo sapiens

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<210> 851

<211> 1017
 <212> DNA
 <213> Homo sapiens

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 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
 catgaggtca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
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 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840
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<210> 852
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 852
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 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360
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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
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 catgaggtca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
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<210> 853
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 853
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<210> 854
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 854
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 cgaggccggg tctcacatca tccagaggat gtacggctgc gacgtggggc cggacggggc 180
 cctcctccg gggtatgacc agtacgccta cgacggcaag gattacatcg cctgaacga 240
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 gggggccgt gtggcgagc aggacagagc ctacctggag ggctgtgctg tggagtcgct 360
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<210> 855
 <211> 619
 <212> DNA
 <213> Homo sapiens

<400> 855
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 cgcggggagc cccgttcat tgagtgagg tacgtggacg acaccagtt cgtgaggttc 180
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 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360
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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
 gacaccgcgg ctacgatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
 agagcctacc tggagggct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
 gagacgctgc agcgcgcg 619

<210> 856
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 856
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 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgcc 120
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc 180
 gacagcgacg ccgcgagtc gaggaaggag ccgggggcgc catggataga gcaggagggg 240
 ccggagtatt gggaccgga gacacagatc ttcaagacca acacacagac ttaccgagag 300
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360


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aggatgtatg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta tgaccaggac 420
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gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
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catgaggta cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
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tcttccagt ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960
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<210> 857

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 857

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gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgagggtc 180
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ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
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aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta tgaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
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tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
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tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagtc aggtgga 1017

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<210> 858

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 858

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atgcgggtca cggcgccccg aacctctc ctgctgctt ggggggcagt ggccctgacc 60
gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgagggtc 180
gacagcgacg ccacgagtc gaggaaggag ccgcggggcg catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
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aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta tgaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
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tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960

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gtggatcatcg gagctgtggt cgctgctgtg atgtgtaggā ggaagagctc aggtgga 1017

<210> 859
<211> 546
<212> DNA
<213> Homo sapiens

<400> 859
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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtttggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggcataa ccagttagcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

<210> 860
<211> 546
<212> DNA
<213> Homo sapiens

<400> 860
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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcacc 240
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

<210> 861
<211> 546
<212> DNA
<213> Homo sapiens

<400> 861
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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

<210> 862
<211> 1017
<212> DNA

<213> Homo sapiens

<400> 862

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gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc    120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc    180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg    240
ccggagtatt gggagcggga gacacagatc tccaagacca acacacagac ttaccgagag    300
aactgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag    360
aggatgtacg gctgcgagct ggggcccggac gggcgctcc tccggggta tgaccaggac    420
gcttacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg    480
gacaccggcg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
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tcttccagt ccacctcc catcgtgggc attgtgtgct gctggctgt cctagcagtt    960
gtggtcatcg gagctgtgt cgtgctgtg atgtgtagga ggaagagtc aggtgga    1017

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<210> 863

<211> 546

<212> DNA

<213> Homo sapiens

<400> 863

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gtcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gttcatcac cgtgggttac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct    300
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agggcctgtg cgtggagtgc ctccgcagat acctggagaa cgggaaggag acgctgcagc    540
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<210> 864

<211> 546

<212> DNA

<213> Homo sapiens

<400> 864

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gtcccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc    60
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accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcgcaccg    240
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gcgcggg                                     546

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<210> 865

<211> 546

<212> DNA
<213> Homo sapiens

<400> 865
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gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
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agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

<210> 866
<211> 546
<212> DNA
<213> Homo sapiens

<400> 866
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gcgcgg 546

<210> 867
<211> 619
<212> DNA
<213> Homo sapiens

<400> 867
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cgcggggagc cccgttcat caccgtggg tacgtggacg acacgtgtt cgtgaggtc 180
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aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcggtta taaccagta 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgcgccg 480
gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tcgctccga gatacttga gaacgggaag 600
gagacgtgc agcgccgg 619

<210> 868
<211> 546
<212> DNA
<213> Homo sapiens

<400> 868
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accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
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gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 869
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 869
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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
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agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
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gcgcgg 546

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<210> 870
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 870
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cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 871
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<400> 871
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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
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gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gtcctggac cgcgccggac acccgggctc 420

```

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
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 gcgcgg 546

<210> 872
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 872
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 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcgcgg 546

<210> 873
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 873
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 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
 cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300
 gcgacgtggg gccggacggg cgcctcctcc ggggtatga ccaggacgcc tacgacggca 360
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgctgcagc 540
 gcgcgg 546

<210> 874
 <211> 822
 <212> DNA
 <213> Homo sapiens

<400> 874
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 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
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 tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720
 tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780

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822

<210> 875
<211> 546
<212> DNA
<213> Homo sapiens

<400> 875
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cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
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cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360
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gcgcgg 546

<210> 876
<211> 546
<212> DNA
<213> Homo sapiens

<400> 876
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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
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cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360
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gcgcgg 546

<210> 877
<211> 546
<212> DNA
<213> Homo sapiens

<400> 877
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cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
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cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300
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agggcctgtg cgcgagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

<210> 878
<211> 895
<212> DNA

<213> Homo sapiens

<400> 878

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gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggccggc 120
cgcggggagc cccgctcat caccgtggc tacgtggacg acacgtgtt cgtgaggttc 180
gacacgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
aacctgcgca ccgctctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360
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gacaagctgg agcgcgtga cccccaag acacacgtga cccaccacc catctctgac 660
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tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggg 895

```

<210> 879

<211> 546

<212> DNA

<213> Homo sapiens

<400> 879

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gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcagag gaaggagcgg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
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agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

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<210> 880

<211> 546

<212> DNA

<213> Homo sapiens

<400> 880

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gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
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gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360
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agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

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<210> 881

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 881

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atgcggggtca cggcaccccg aaccgtcctc ctgctgctct cggcgggcct ggccctgacc 60
gagacctggg ccggttccca ctccatgagg tatttccaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
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ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
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aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgaggta taaccagtta 420
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gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540
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tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catctgggc attgttgct gcctggctgt cctagcagtt 960
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```

<210> 882

<211> 546

<212> DNA

<213> Homo sapiens

<400> 882

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gttctatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
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tgcggggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300
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agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 883

<211> 546

<212> DNA

<213> Homo sapiens

<400> 883

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gtctccactc catgaggtat ttccacaccg ccatgtcccg gcccgggcgc ggggagcccc 60
gttctatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
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agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

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<210> 884

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 884

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atgcggtca cggcaccg aaccgtctc ctgtgtctt cggcgccct ggccctgacc 60
gagacctggg cgggtccca ctccatgagg tatttccaca cggccatgtc cggcccggc 120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggtc 180
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tcttccagt ccaccatccc catcgtggc attgtgtg gctgtgtg cctagcagtt 960
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```

<210> 885

<211> 543

<212> DNA

<213> Homo sapiens

<400> 885

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gttctcatc cgtgggtac gtggacgaca cgctgttctg gaggttcgac agcgaccca 120
cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
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agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcg 543

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<210> 886

<211> 546

<212> DNA

<213> Homo sapiens

<400> 886

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gttctcatc cgtgggtac gtggacgaca cgctgttctg gaggttcgac agcgaccca 120
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agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcg 546

```

<210> 887

<211> 1017

<212> DNA
<213> Homo sapiens

<400> 887

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gagacctggg cgggtcccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc 120
cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
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gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540
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tcttccagc ccacatccc catcgtgggc attgttgcg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtgt cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

```

<210> 888
<211> 546
<212> DNA
<213> Homo sapiens

<400> 888

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gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcgcat ggatagagca ggaggggccg gagtattggg 180
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<210> 889
<211> 1017
<212> DNA
<213> Homo sapiens

<400> 889

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<210> 890
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 <212> DNA
 <213> Homo sapiens

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<210> 891
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 <212> DNA
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<210> 892
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 892
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<210> 893
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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<210> 894
 <211> 993
 <212> DNA
 <213> Homo sapiens

<400> 894
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<210> 895
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 895

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<210> 896

<211> 822

<212> DNA

<213> Homo sapiens

<400> 896

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<210> 897

<211> 619

<212> DNA

<213> Homo sapiens

<400> 897

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<210> 898

<211> 546

<212> DNA

<213> Homo sapiens

<400> 898

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gcgctg 546

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<210> 899

<211> 546

<212> DNA

<213> Homo sapiens

<400> 899

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gcgctg 546

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<210> 900

<211> 1017

<212> DNA

<213> Homo sapiens

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<210> 901

<211> 820

<212> DNA

<213> Homo sapiens

<400> 901

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<210> 902
 <211> 546
 <212> DNA
 <213> Homo sapiens

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<210> 903
 <211> 1017
 <212> DNA
 <213> Homo sapiens

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<210> 904
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<212> DNA
<213> Homo sapiens

<400> 904

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<211> 546
<212> DNA
<213> Homo sapiens

<400> 905

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<212> DNA
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<400> 906

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA

<213> Homo sapiens

<400> 912

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<210> 913

<211> 1017

<212> DNA

<213> Homo sapiens

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<211> 1017

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
 aagattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
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<210> 922
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 <212> DNA
 <213> Homo sapiens

<400> 922
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 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180
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 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
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<210> 923
 <211> 546
 <212> DNA
 <213> Homo sapiens

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gcgcgg 546

<210> 924
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<212> DNA
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gcgcgg 546

<210> 925
<211> 546
<212> DNA
<213> Homo sapiens

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gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttacgc tacgacggca 360
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gcgcgg 546

<210> 926
<211> 546
<212> DNA
<213> Homo sapiens

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cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
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gcgcgg 546

<210> 927
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 <212> DNA
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<210> 928
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
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<210> 929
 <211> 546
 <212> DNA
 <213> Homo sapiens

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 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480
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<210> 930
 <211> 546
 <212> DNA
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<400> 930

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cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
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<210> 931

<211> 546

<212> DNA

<213> Homo sapiens

<400> 931

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agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

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<210> 932

<211> 546

<212> DNA

<213> Homo sapiens

<400> 932

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gcgcgg 546

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<210> 933

<211> 546

<212> DNA

<213> Homo sapiens

<400> 933

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cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300

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